#6

FIG. 1

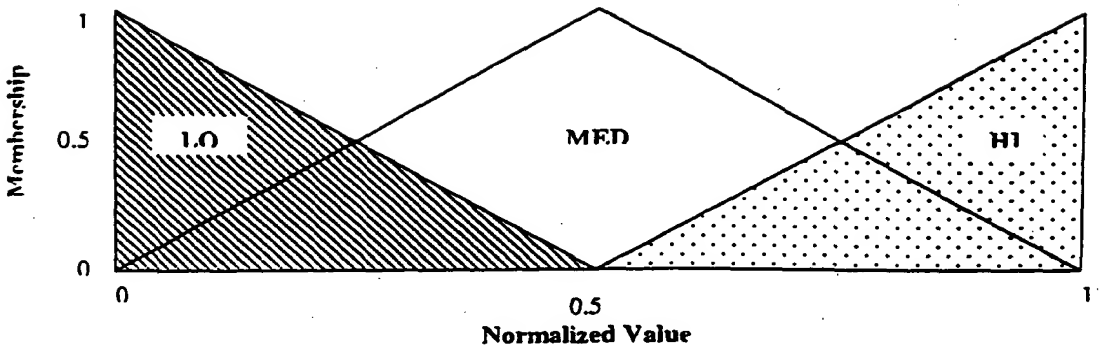


FIG. 2

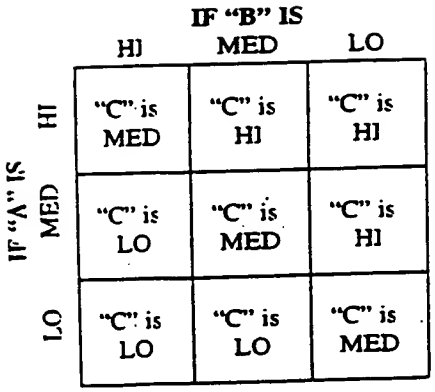

IF "B" IS
HI
MED
LO
IF "A" IS
HI
MED
LO
"C" is MED
"C" is HI
"C" is HI
"C" is LO
"C" is MED
"C" is HI
"C" is LO
"C" is LO
"C" is MED

Fig. 3A

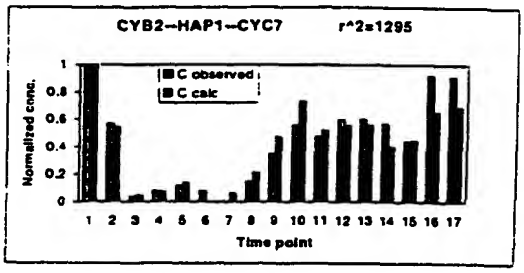


Fig 3B

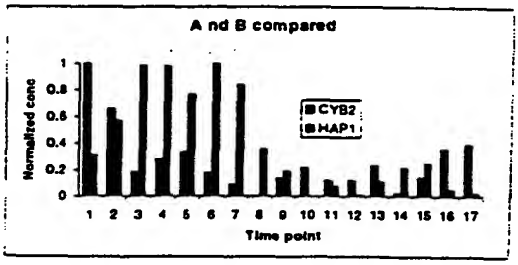


Fig 3C

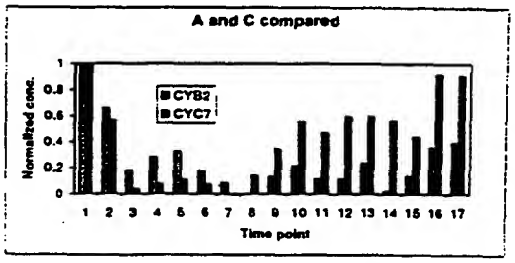


FIG. 4

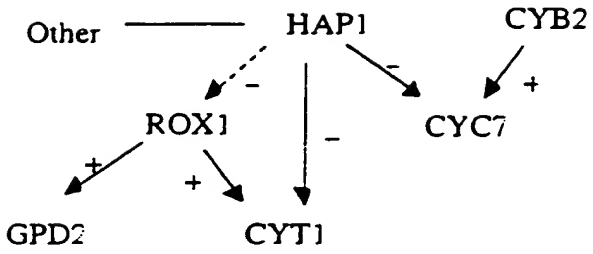
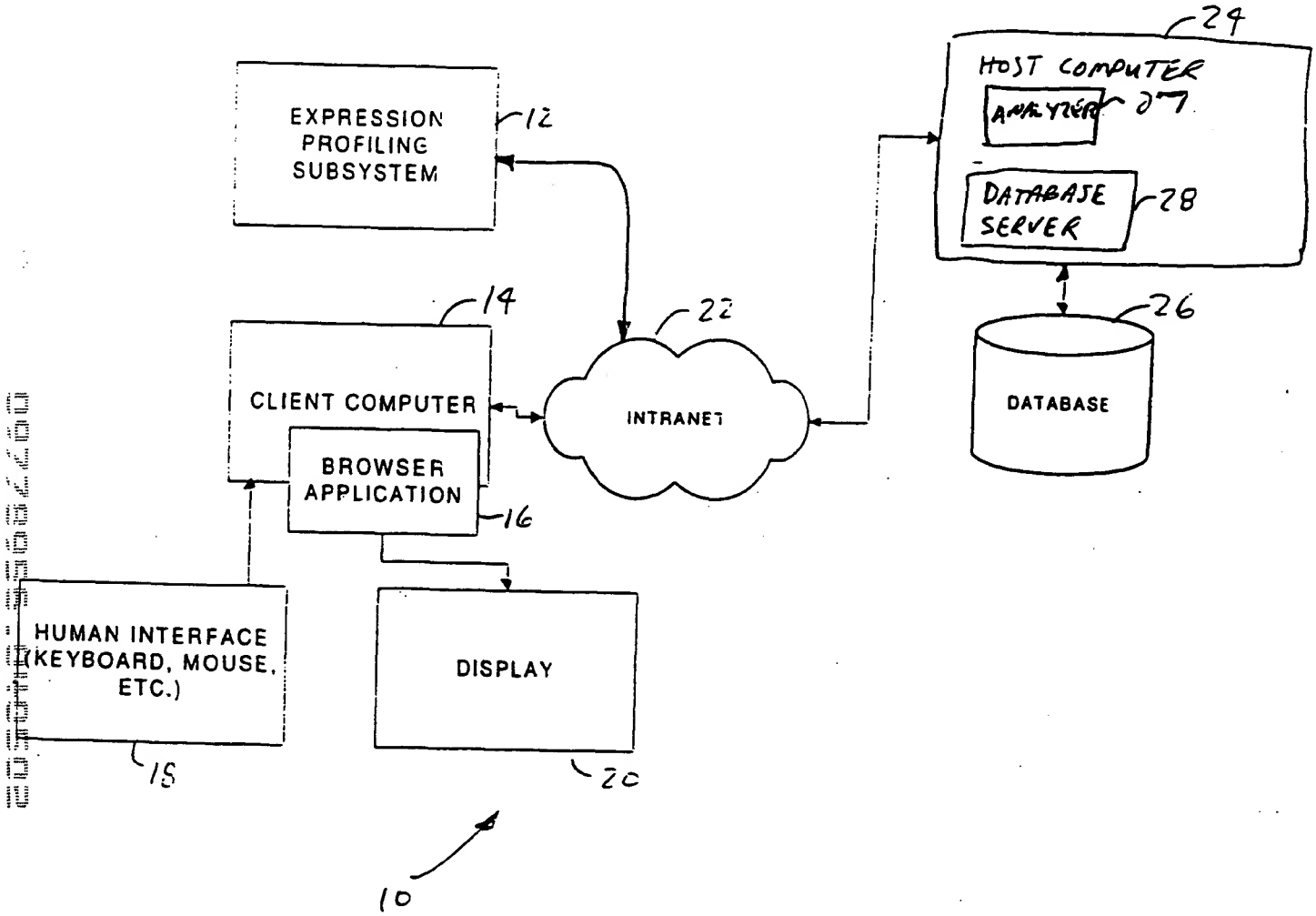


FIG 5


EXPRESSION PROFILING SUBSYSTEM
12
HOST COMPUTER
ANALYZER
27
DATABASE SERVER
28
24
CLIENT COMPUTER
14
BROWSER APPLICATION
16
INTRANET
22
DATABASE
26
HUMAN INTERFACE (KEYBOARD, MOUSE, ETC.)
15
DISPLAY
20
10

20304A0 9306260

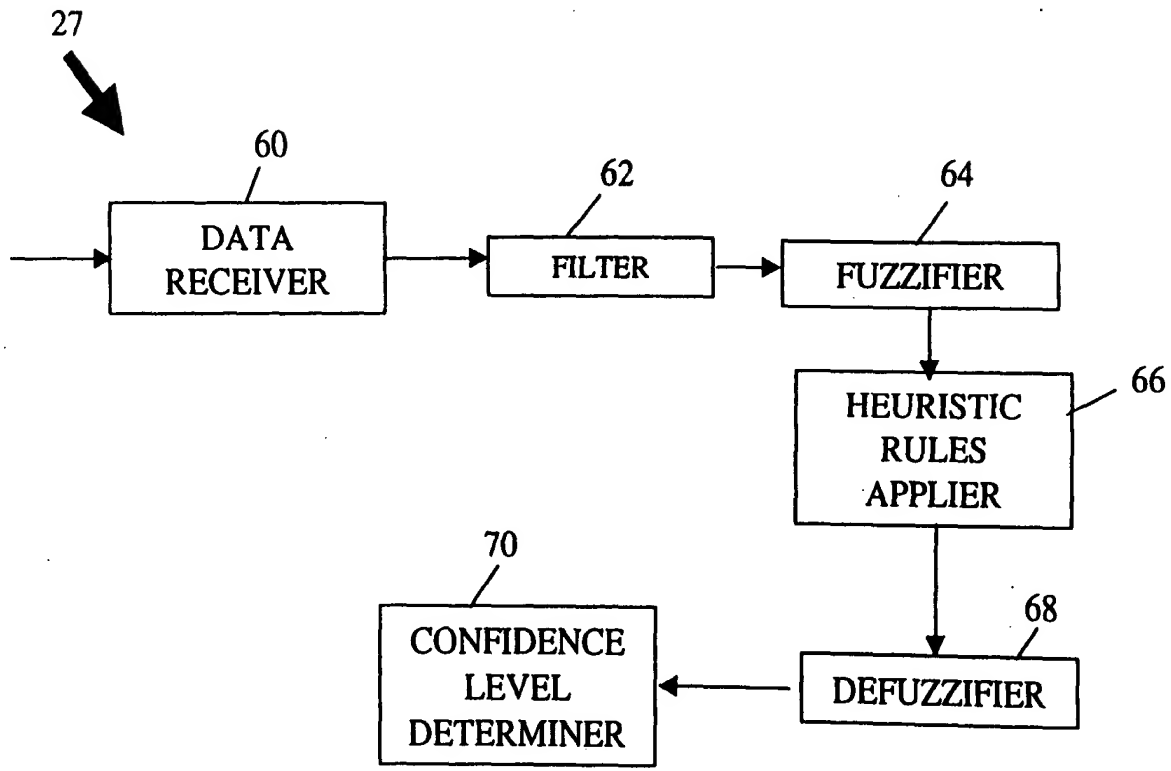


Fig. 6

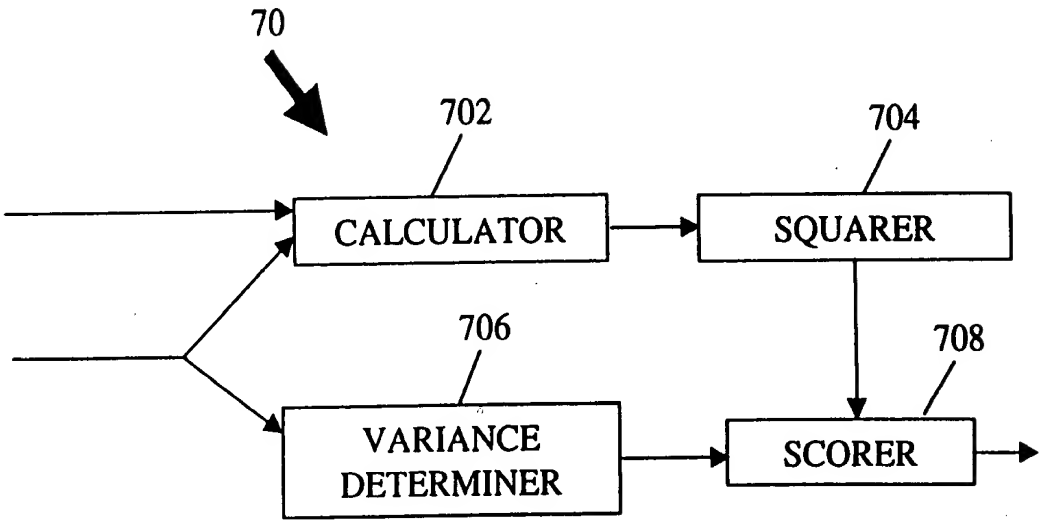


FIG. 7

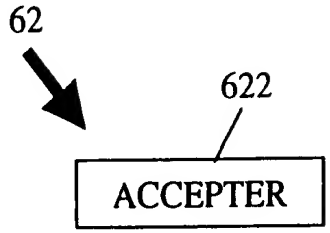


FIG. 8

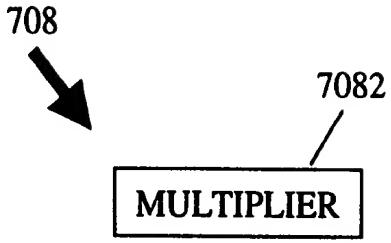


FIG. 9

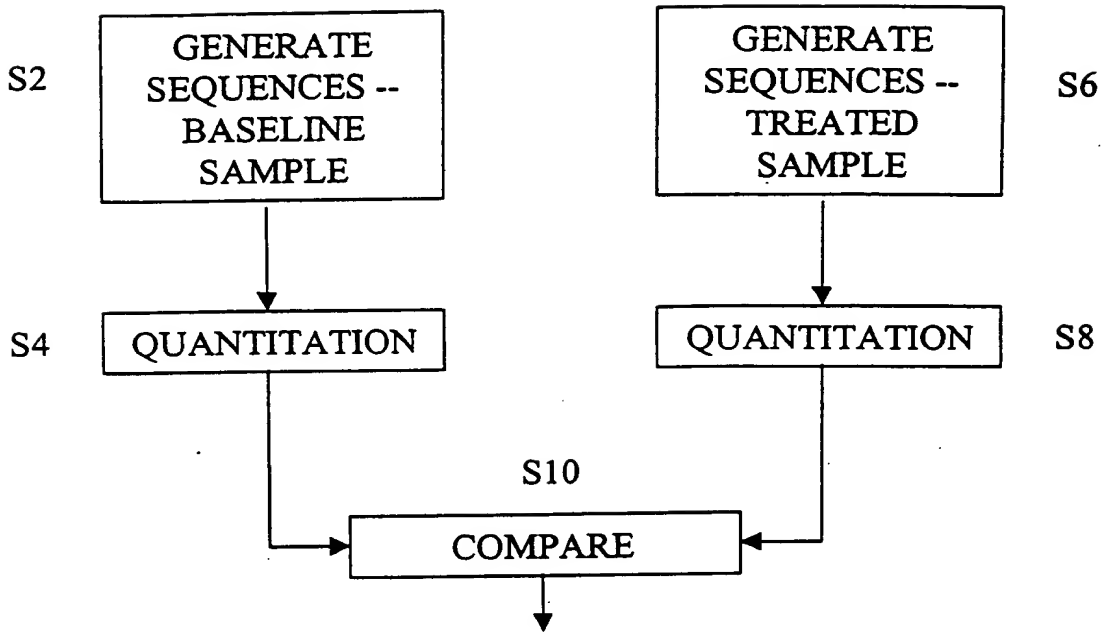
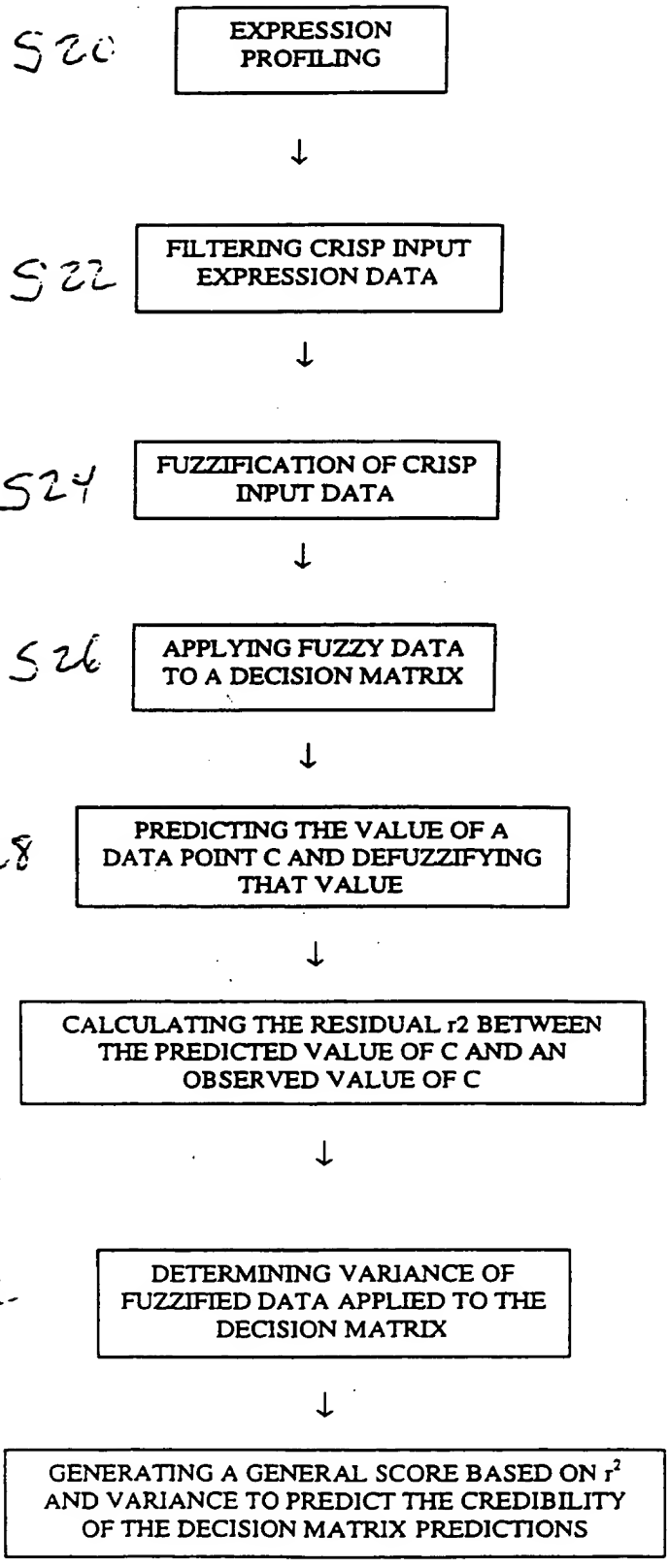

S2
GENERATE SEQUENCES -- BASELINE SAMPLE
GENERATE SEQUENCES -- TREATED SAMPLE
S6
S4
QUANTITATION
QUANTITATION
S8
S10
COMPARE

FIG. 10

FIG. 11


S20
EXPRESSION PROFILING
S22
FILTERING CRISP INPUT EXPRESSION DATA
S24
FUZZIFICATION OF CRISP INPUT DATA
S26
APPLYING FUZZY DATA TO A DECISION MATRIX
S28
PREDICTING THE VALUE OF A DATA POINT C AND DEFUZZIFYING THAT VALUE
S30
CALCULATING THE RESIDUAL r2 BETWEEN THE PREDICTED VALUE OF C AND AN OBSERVED VALUE OF C
S32
DETERMINING VARIANCE OF FUZZIFIED DATA APPLIED TO THE DECISION MATRIX
S34
GENERATING A GENERAL SCORE BASED ON r^2 AND VARIANCE TO PREDICT THE CREDIBILITY OF THE DECISION MATRIX PREDICTIONS